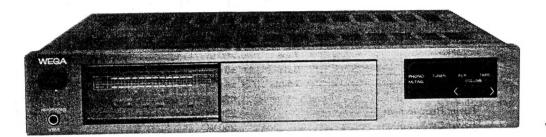


HIFI STEREO AMPLIFIER

V 555 RU 555

Service Manual

8/81



V555



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SPECIFICATIONS

Power Output $2\times35~\text{W, }4\Omega~\text{(1 kHz)}$ Music Power Output $2\times55~\text{W, }4\Omega~\text{(1 kHz)}$

Distortion (1 kHz) 0.1 %

Frequency Response 40 Hz-12.5 kHz (30 W 0.3 %)

Signal to Noise Ratio
Phono MM 70 dB Weighted A (IHF)
Tuner 80 dB Weighted A (IHF)

Tape 80 dB Weighted A (IHF) Input Sensitivity Phono MM 4.3 mV/47 k Ω

Tuner 260 mV/47 kΩ

Tape 260 mV/47 k Ω Tone Control Bass ± 8 dB/100 Hz

Treble ±8 dB/10 kHz
Speaker 4Ω...16Ω (Terminals & Jack)

Speaker $4\Omega...16\Omega$ (Terminals & Jack) Power Requirement 220 V/50 Hz

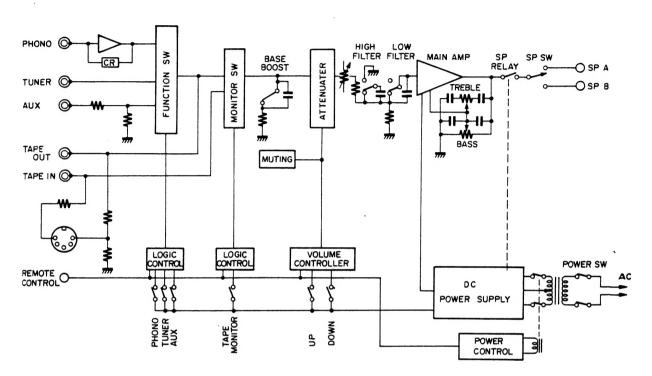
Power Consumption 250 W

Dimensions (W x H x D) $430 \times 80 \times 294 \text{ mm}$

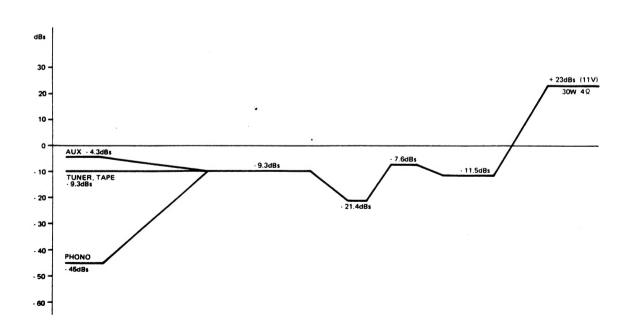
Weight 6.8 kg

SECTION 1 OUTLINE

1-1: Block Diagram - V555 -



1-2: Level Diagram V555



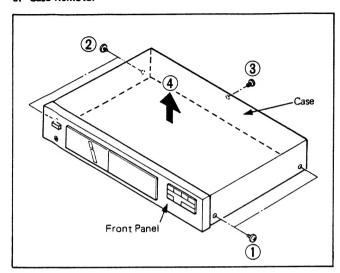


SECTION 2 DISASSEMBLY

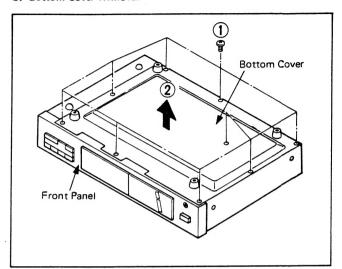
Removal

Follow the disassembly procedure in the numerical order given.

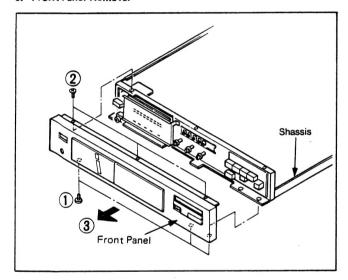
a. Case Removal



b. Bottom Cover Removal



c. Front Panel Removal



d. Door (Front Panel) Removal

1. Remove 4 screws in Fig. 1.

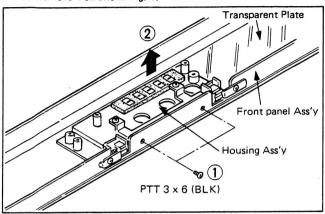


Fig. 1

2. Remove 2 screws PTT 3×6 and pull out Front Panel Door as shown in *Fig. 2*.

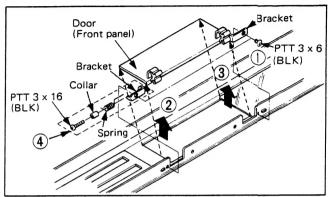


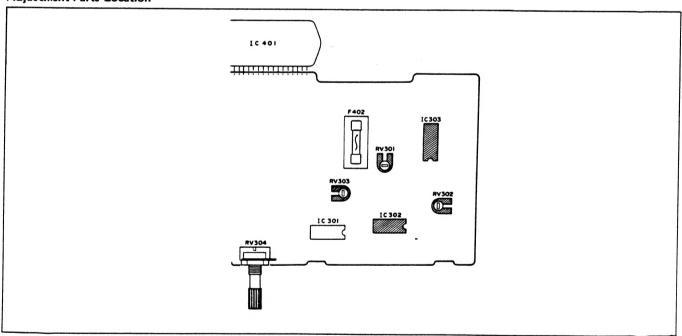
Fig. 2



SECTION 3 ELECTRICAL ADJUSTMENT

Step	Alignment & Conditions	Alignment Procedures	Adjust
1.	Volume Ramp Control	 a. Connect DC VTVM between Pin 1 of IC302 and GND. b. Set Volume Control to its Maximum position. c. Adjust RV301 to obtain 3.5V±0.1V 	RV301 for 3.5±0.1V
2.	Volume Offset Function: Tuner Audio Input: 1kHz	 a. Connect 4 ohm load and VTVM to speaker terminals. b. Feed 1kHz signal to TUNER INPUT jacks. c. Set Volume Control to its max. position (31th step) d. Adjust input signal level so that 20dBs (7.75V) output is obtained on VTVM. (left channel) e. Set Volume control to 16th step position by pushing 'VOLUME —' button 15 times. f. Adjust RV302 until the output reduces by 24dBs from 20dBs reference level. g. Next, measure right channel power output, it should be the same as that of left channel. If not, adjust RV303. 	RV302 for —4dBs RV303 for —4dBs
3.	Volume Preset Point Check	 a. Temporarily turn off power, then turn on the power to set Volume Control to its preset position (12th step). b. Measure voltage at each pin of 9, 10, 11, 12 & 13 of IC303. It should be 0V at pins 9, 10 & 13; 8V at pins 11 & 12. 	
4.	Muting Level Check	 Depress MUTING button and make sure power output reduction on VTVM is about 20dB 	

Adjustment Parts Location



SECTION 4 DIAGRAMS

4-1: Replacement Semiconductors

IC104, 106] IC107, 501 } IC105

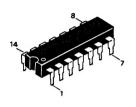
MC14001B

IC108 IC103

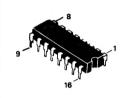
MC14011B MC14013B : MC14066B

IC302 IC301

: LM324 : AN829



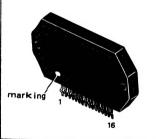
IC102 : MC14052B IC303 : LC7500



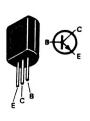
IC101 : TL4558P



IC401 : STK463



: 2SD400E Q501, 503, 511 : 2SD863E



 $Q103 \sim 105, 301 \sim 308,$ Q504, 505, 507, 508, Q510, 701 ~ 703

2SC536F/KF

Q106~108,502,509 : 2SA733Q

D101 \sim 110, 301 \sim 303, D401 \sim 406, 507 \sim 511,

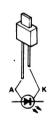
1S2473



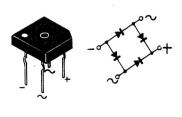
D601 ~ 605 : LN81RCPHL



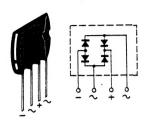
D701 ~ 705 : TLR205



D501 : S4VB20



D505 : DS185E



D512, 513 : 10E1



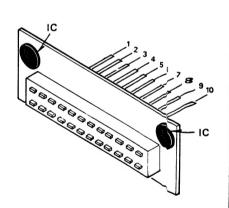
D502, 503, 506 : GZA8.2U

D504

: GZA16L



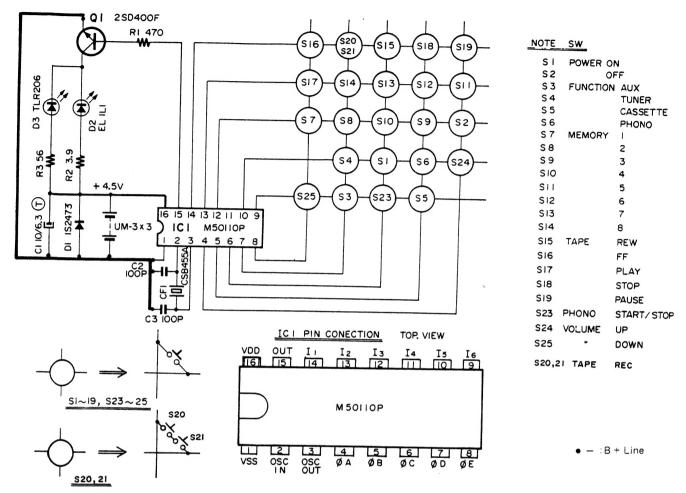
ME401 (LED DISPLAY)



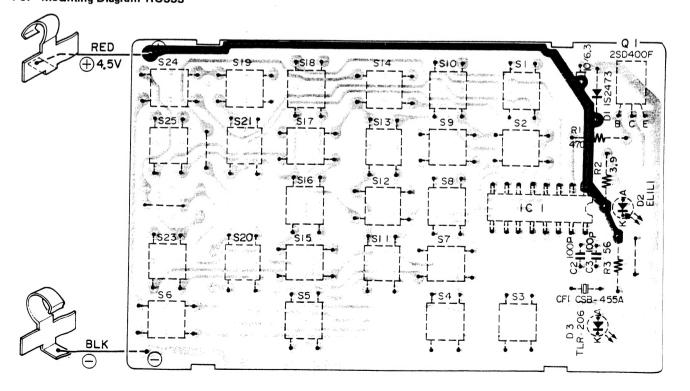
NO.	DESCRIPTION
1	VIN UPPER
2	D1, D1' COM. CAT.
3	VB UPPER
4	VLAMP
5	VREF MAX
6	VB LOWER
7	Vcc
8	GND
9	VREF MIN
10	VIN LOWER

555/RU555

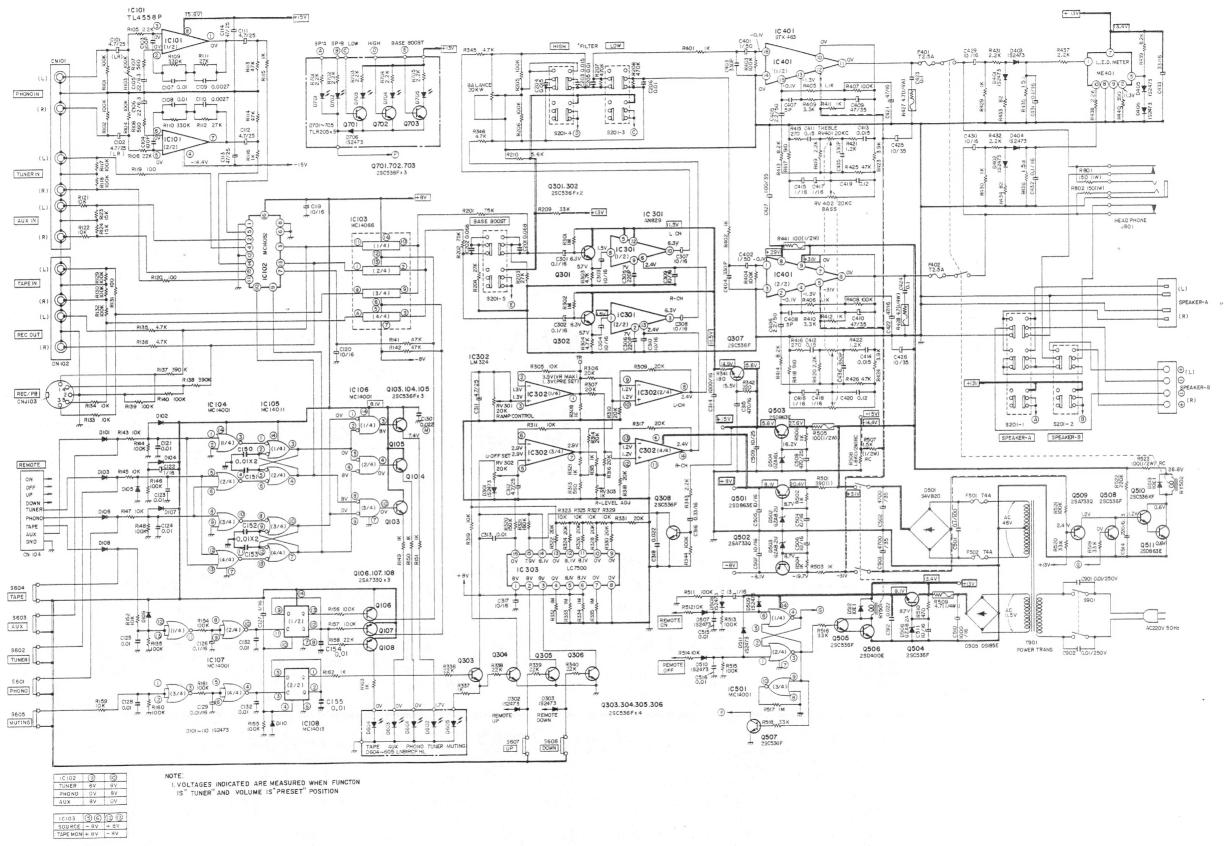
4-2: Schematic Diagram - RU555 -



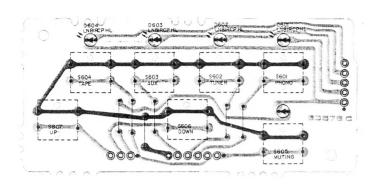
4-3: Mounting Diagram RU555

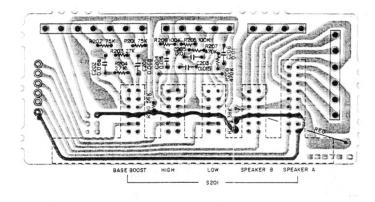


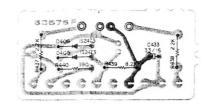
4-4: Schematic Diagram - V555 -

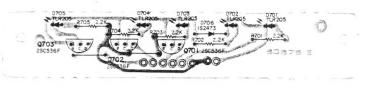


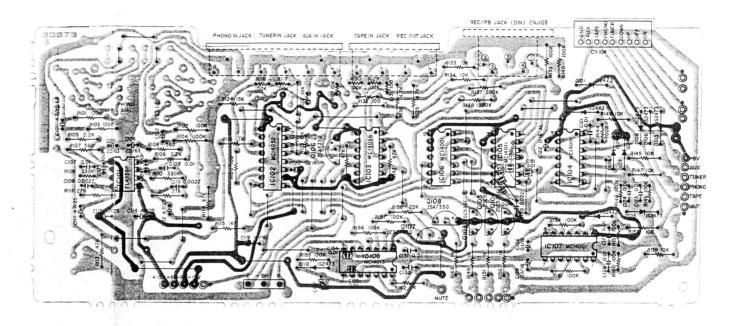
4-5: Mounting Diagrams - V555 -

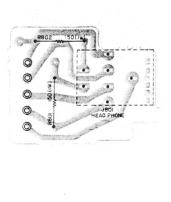


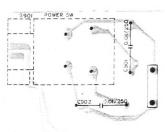


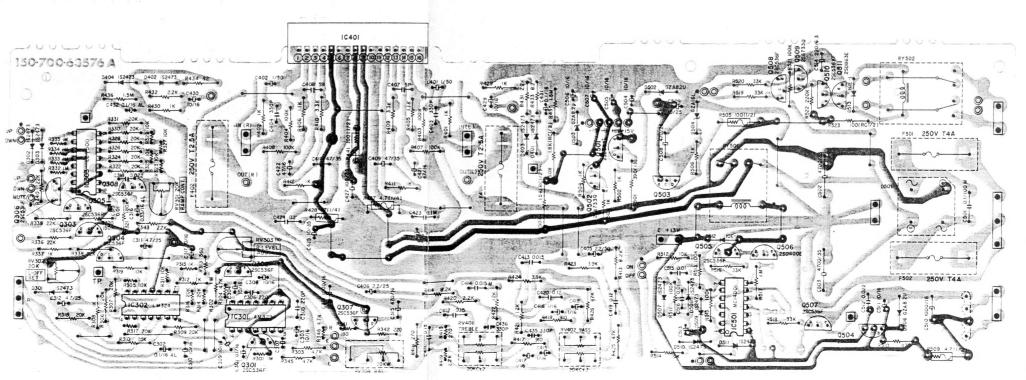




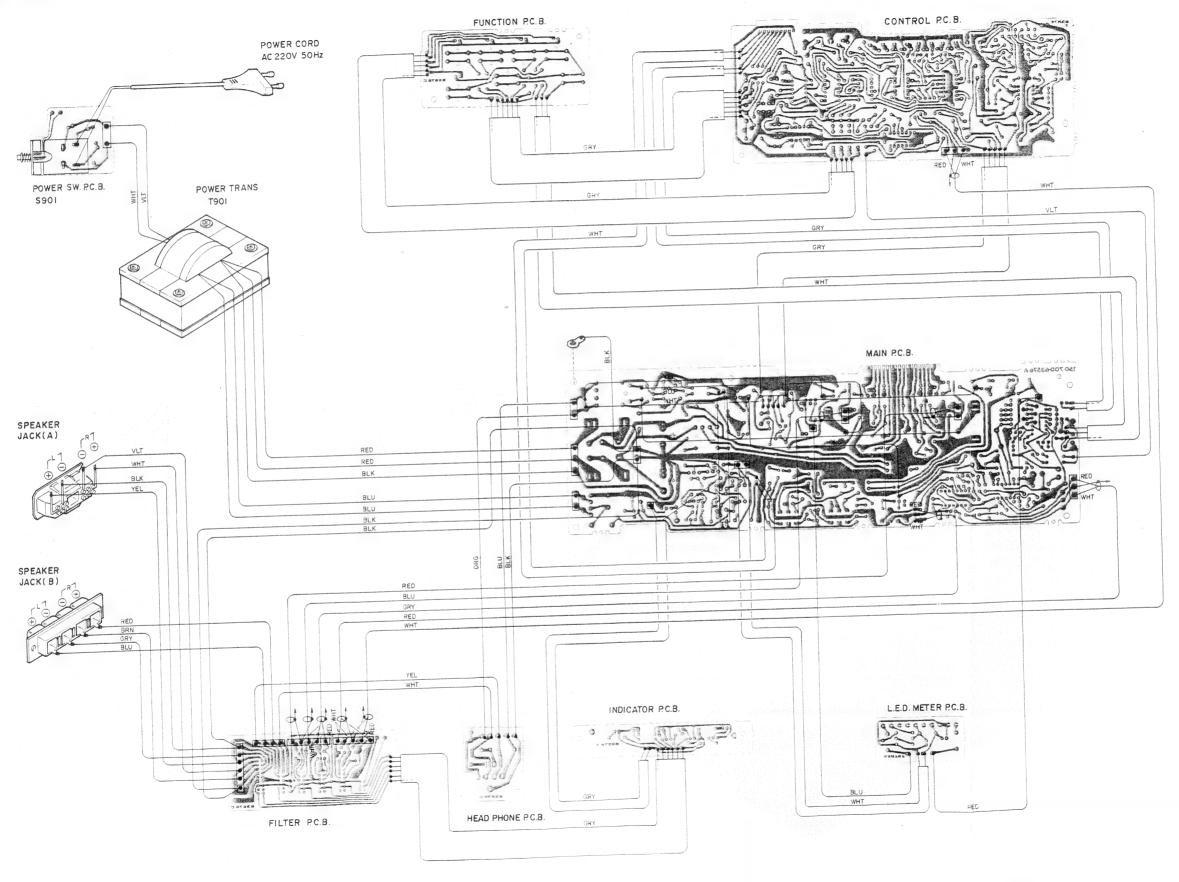






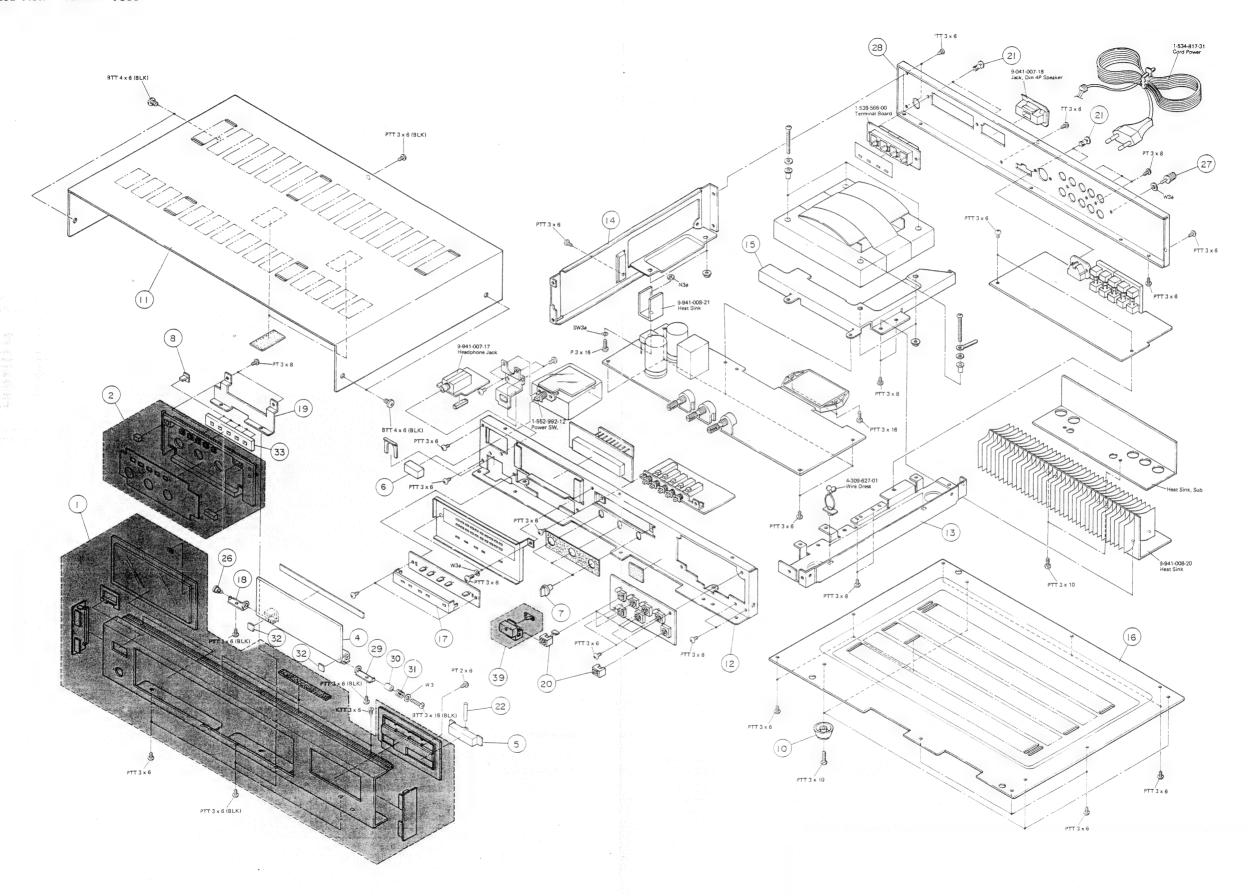


4-6: Wiring Diagrams - V555 -



SECTION 5 EXPLODED VIEWS

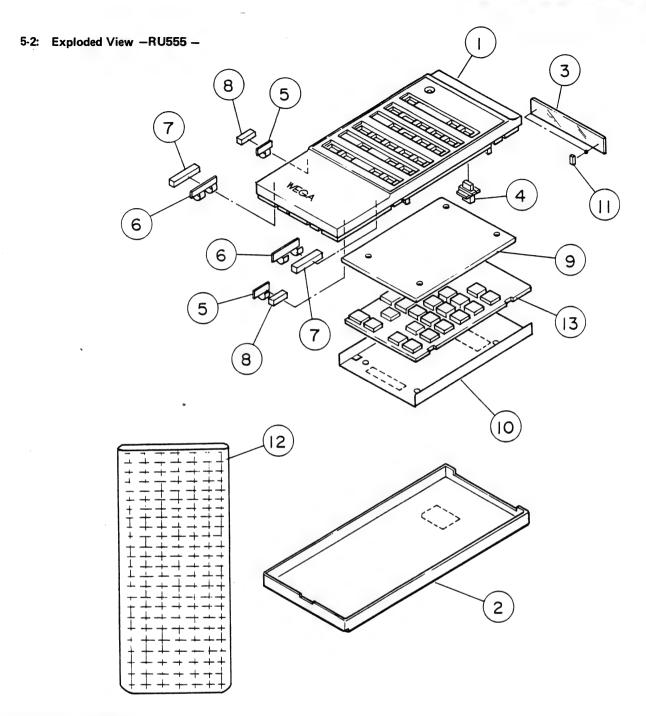
5-1: Exploded View - Cabinet V555 -



Parts List - Cabinet - V555 -

I IIus. No.	Parts No.	Parts Name
1	9-941-011-85	Front Panel Ass'y
		(Front Panel)
		(Transparent Plate)
		(Escutcheon)
		(Escutcheon, Power Switch)
		(Plate, Side)
2	9-941-011-87	Housing Ass'y
		(Housing) (Magnet A)
		(Bracket) (Magnet B)
4	9-941-011-86	Door Ass'y
		(Door)
		(Bracket)
5	9-941-011-88	Knob, Volume
6	9-941-011-32	Knob Ass'y, Power
7	9-941-008-26	Knob, Bass
8	9-941-008-26	Knob, Function
10	X-486-131-21	Foot Ass'y
11	9-941-009-31	Case
12	9-941-008-28	Front Chassis
13	9-941-009-36	Frame (R)
14	9-941-011-16	Frame (L)
15	9-941-008-29	Chassis, Trans.
16	9-941-008-30	Cover, Bottom
17	9-941-008-31	Holder, LED

lilus. No.	Parts No.	Parts Name	
No. 18 19 20 21 22 26 27 28 29 30 31 32 33 39	9-941-009-42 9-941-009-43 9-941-009-33 4-812-134-01 9-941-008-33 9-941-011-17 9-941-008-37 9-941-011-91 9-941-009-51 9-941-009-54 9-911-844-XX 9-941-008-32 9-941-011-33	Bracket, Door Bracket, Housing Ring, Flexible Rivet, 3.5x5.5, Nylon Shaft, VR Special Screw 3x10 GND Terminal Rear Panel Bracket, Door Color, Door Spring, Dumper Cushion, Door Cushion, Housing Knob Ass'y, Memory with • Memory • Indicator	



Parts List - RU555 -

illus. No.	Parts No.	Parts Name
1	9-941-008-43	Case Ass'y with ● Case, Upper ● Panel
2	9-941-008-44	Bottom Cover Ass'y with ● Cover, Bottom ● Label, Rating
3	9-941-008-46	Plate, Transparent
4	9-941-008-47	Knob, Function
5	9-941-008-48	Batt. Terminal (A)
6	9-941-008-49	Batt. Terminal (B)

Illus. No.	Parts No.	Parts Name
7	9-941-008-50	Cushion, Batt. Terminal (A)
8	9-941-008-51	Cushion, Batt. Terminal (B)
9	9-941-008-52	Cushion, Function Knob
10	9-941-008-53	Cover Ass'y
		with ● Cover
		 Label, Caution
		 Label, Prod. No.
11	9-941-008-54	Cushion, Plate
12	9-941-008-55	Poly Bag
13	9-941-008-62	P.C.B. Ass'y
	9-941-008-63	P.C.B. Board

SECTION 6 PARTS LIST

(1) Electrical Parts List - V555 -

Ref. No.	Parts No.	Description		
	SEMICO	NDUCTORS		
— ICs —				
IC101	8-759-145-58	TL4558P		
IC102	9-941-008-08	MC14052B		
IC103	9-941-008-09	MC14066B		
1C104, 106 107	8-759-040-01	MC14001B		
IC105	8-759-040-11	MC14011B		
IC108	8-759-040-13	MC14013B		
IC301	9-941-008-15	AN829		
IC302	9-941-008-14	LM324		
IC303	9-941-008-13	LC7500		
IC401	9-941-000-96	STK463		
.IC501	8-759-040-01	MC14001B		
	– Tra	nnsistors —		
Q103, 104 105	8-729-809-03	2SC536F		
Q106, 107 \		20.200		
108	8-729-173-36	2SA733Q		
Q301, 302				
303, 304 \	0.720.052.62	2005265		
305, 306 /	8-729-853-63	2SC536F		
307, 308				
Q501, 503	9-941-008-18	2SD863E		
511 / Q502,509	8-729-173-36	2SA733Q		
Q504, 505 \		2SC536F		
507,508	8-729-853-63	250556		
Q506	8-729-177-44	2SD400E		
Q510	8-729-803-03	2SC536KF		
703	8-729-803-03	2SC536F		
	iodes –			
D101, 102,				
103, 104				
105, 106				
107, 108				
109,110	8-719-924-73	1S2473		
301,302	0-719-924-73	132473		
303, 401				
402, 403				
404, 405		•		
406 / D501	8-719-504-20	S4VB20		
D502,503 \	8-719-182-57	GZA8.211, Zener		
506				
0504	8-719-116-55	GZA16L, Zener		
D504	9-941-000-28	DS185E		
D505				
D505 D507,508 \				
D505 D507,508 509,510	8-719-924-73	1S2473		
D505 D507,508 509,510 511	8-719-924-73			
D505 D507,508 509,510 511 D512,513		1S2473 10E1		
D505 D507,508 509,510 511	8-719-924-73			

Ref. No.	Parts No.	Description	
D701, 702 703, 704 705	8-719-802-05	TLR205	
D706	8-719-924-73	1S2473	
	RES	ISTORS	
		mon 1/4W Carbon Resistors are Page 24 for their Part No.	
omitted.	Herer to the list on	Page 24 for their Part No.	
RV301,302	1-226-237-11	20K, Adjustable	
RV303	1-226-233-11	1K, Adjustable	
RV304	9-941-008-16	20K-W, Adjustable, Bal.	
RV401, 402 R427, 428	9-941-008-17 1-212-849-51	20K-C, Adjustable, Tone 4.7, Fusible	
R441	1-212-982-51	100, Fusible	
R501	1-213-138-51	390, 1W, Metal-Oxide	
R505	1-212-982-51	100, 1/2W, Fusible	
R509	1-212-950-51	4.7, 1/2W, Fusible	
R801,802	1-213-133-11	150, 1W, Metal-0xide	
	CAPA	CITORS	
	capacitors are omi r their Part No.	tted. Refer to the lists on Page 21	
C502, 503	1-125-193-00	4700µF, 35V, elect.	
C901, 902	1-130-456-11	0.01µF, AC 250V, Metallized Film	
	MISCEL	LANEOUS	
S201 S601, 602	9-941-008-12	Switch, Push	
603, 604 605, 606 607	1-552-412-11	Switch, Key Board	
S901	1-552-992-12	Switch, Power	
RY501	9-941-008-19	Relay, DC 12V, Power	
RY502	9-941-008-20	Relay, DC 24V, \$P-out	
F401, 402	1-532-286-11	Fuse, T2.5A	
F501,502	1-532-350-11	Fuse, T4.0A	
ME401 T901	1-520-407-11 9-941-008-23	Meter, LED Type Transformer, Pover	
1901	9-941-000-82	Holder, Fuse	
	9-941-008-20	Heat Sink	
	9-941-008-21	Heat Sink	
	3-701-748-01	Clamp, Cord	
	1-534-817-31	Cord, Power	
	9-941-000-50	Stopper, Power Cord	
J801	9-941-007-17	Jack, Headphone	
CN101	1-507-639-00	Jack, DIN, 6P	
CN102	1-507-652-00	Jack, Pin Type, 4	
CNJ103 CNJ104	1-507-618-00 1-560-263-00	Jack, DIN, 5P	
CN9104 CN901	9-941-007-18	Connector, 9P, R _{fm}	
CN902	1-536-566-00	Terminal Board, Spe Aker	
	9-941-008-22	P.C. Board	
	-		

ACCESSORIES AND PACKING MATERIALS - V555 -

Parts No.	Description	Parts No.	Description
3-701-626-80	Poly Bag	9-941-011-89	Individual Carton Instruction Manual
3-701-626-01	Poly Bag Unit	9-941-001-90	
9-941-008-35	Cushion	3-703-259-02	Warranty Card
	Spacer	9-941-008-42	Cord with Connector

(2) Electrical Parts List - RU555 -

Ref. No.	Parts No.	Description
IC1	9-941-008-57	IC, M50110P *
Q1	8-729-177-43	TR., 2SD400E
D1	8-719-924-73	Diode, 1S2473
D2	9-941-008-58	LED, EL1L1
D3	9-941-008-85	LED, TLR206
CF1	9-941-008-59	IFT, 455kHz

Ref. No.	Parts No.	Description
S1~19 23~25	9-941-008-61	Switch, Key Board

(3) Electrical Parts List - Common. -

ELECTROLYTIC CAPACITORS

Note: Circled letter (A to 2) are applicable to European models only.

			RATING		→: Use the high voltag	ge rated one.
CAP. (µF)	6.3 VOLT.	10 VOLT.	16 VOLT.	25 VOLT.	35 VOLT.	50 VOLT.
CAP. (µP)	PART No.	PART No.	PART No.	PART No.	PART No.	PART No.
0.47					-	1-121-726-00 (A
1.0					-	1-121-391-00 (A
2.2					-	1-121-450-00 (A
3.3	→	-		1-121-392-00 (A)	→	1-121-393-00 (A
4.7	-	-	-	1-121-395-00 (A)		1-121-396-00 (A
10	→	-	1-121-651-00 (A)	1-121-398-00 (A)	-	1-121-738-00 (A
22	→	→	1-121-479-00 (Ā)	1-121-480-00 (Ā)	1-121-662-00 (A)	1-121-152-00 (A
33	→	-	1-121-403-00 (A)	1-121-404-00 (A)	1-121-652-00 (B)	1-121-405-00 (Ā
47	→	1-121-352-00 A	1-121-409-00 (A)	1-121-410-00 (A)	1-121-653-00 (B)	1-121-411-00 (A
100		1-121-414-00 A	1-121-415-00 (A)	1-121-416-00 (A)	1-121-357-00 B	1-121-417-00 (B
220	1-121-419-00 B	1-121-420-00 B	1-121-421-00 (A)	1-121-422-00 B	1-121-261-00 (C)	1-121-423-00 (B
330	1-121-751-00 B	1-121-805-00 B	1-121-521-00 (Č)	1-121-654-00 B	1-121-655-00 (D)	1-121-656-00 (C
470	1-121-424-00 B	1-121-425-00 ©	1-121-426-00 Ō	1-121-733-00 B	1-121-361-00 Ē	1-121-810-00 (D
1000	-	1-121-736-00 ©	1-121-245-00 D	1-121-657-00 D	1-121-388-00 (E)	1-123-061-00 (F
2200	1-121-658-00 B	1-121-659-00 ©	1-121-660-00 D	1-123-067-00 (F)	1-121-984-00 (F)	_
3300	1-121-661-00 D	1-123-075-00 E	1-123-071-00 F	-	-	-

CAP. (µF)	100 VOLT.	160 VOLT.	250 VOLT.	350 VOLT.
CAP. (µP)	PART No.	PART No.	PART No.	PART No.
→ 0.47	-	-	_	-
1.0	1-123-249-00 A	1-123-252-00 (A)	1-123-003-00 (B)	1-121-168-00 (B)
2.2	1-123-250-00 (A)	1-123-026-00 B	-	1-123-028-00 B
3.3	1-121-995-00 (A)	-	1-123-004-00 ®	1-123-006-00 ©
4.7	1-123-255-00 (Ā)	1-121-246-00 B	1-121-759-00 B	1-123-007-00 (D)
10	1-121-126-00 (B)	1-121-999-00 B	1-123-254-00 ©	1-123-008-00 D
22	1-121-996-00 ©	1-123-253-00 ©	1-123-005-00 🕦	1-123-022-00 D
33	1-121-997-00 ©	1-121-757-00 ©	-	-
47	1-123-251-00 ©	1-121-919-00 🔘	-	-
100	1-123-084-00 E	-	-	-

CERAMIC CAPACITORS (A)

			RAT	ING			
	50 VOLT.	CAR (-5)	50 VOLT.	CAR (-5)	50 VOLT.	CAP. (μF)	50 VOLT.
CAP. (pF)	PART No.	CAP. (pF)	PART No.	CAP. (pF)	PART No.	CAP. (µF)	PART No.
0.5	1-101-837-00	22	1-102-959-00	150	1-101-361-00	0.001	1-102-074-00
0.75	1-101-586-00	24	1-102-960-00	160	1-101-367-00	0.0012	1-102-118-00
1.0	1-102-934-00	27	1-102-961-00	180	1-102-976-00	0.0015	1-102-119-00
1.5	1-101-576-00	30	1-102-962-00	200	1-102-977-00	0.0018	1-102-120-00
2.0	1-102-935-00	33	1-102-963-00	220	1-102-978-00	0.0022	1-102-121-00
3	1-102-936-00	36	1-102-964-00	240	1-102-979-00	0.0027	1-102-122-00
4	1-102-937-00	39	1-102-965-00	270	1-102-980-00	0.0033	1-102-123-00
5	1-102-942-00	43	1-102-966-00	300	1-102-981-00	0.0039	1-102-124-00
6	1-102-943-00	47	1-101-880-00	330	1-102-820-00	0.0047	1-102-125-00
7	1-102-944-00	51	1-101-882-00	360	1-102-821-00	0.0056	1-102-126-00
8	1-102-945-00	56	1-101-884-00	390	1-102-822-00	0.0068	1-102-127-00
9	1-102-946-00	62	1-101-886-00	430	1-102-823-00	0.0082	1-102-128-0
10	1-102-947-00	68	1-101-888-00	470	1-102-824-00	0.01	1-102-129-00
11	1-102-948-00	75	1-101-890-00	510	1-101-059-00	0.022	1-101-005-00
12	1-102-949-00	82	1-102-971-00	560	1-102-115-00	0.047	1-101-006-00
13	1-102-950-00	91	1-102-972-00	680	1-102-116-00		
15	1-102-951-00	100	1-102-973-00	820	1-102-117-00		
16	1-102-952-00	110	1-102-815-00	•			
18	1-102-953-00	120	1-102-816-00				
20	1-102-958-00	130	1-101-081-00				

 $0.001\mu F = 1,000pF$

CERAMIC (SEMICONDUCTOR) CAPACITORS (A)

	RATING →: Use the high voltage rated one									
	25 VOLT.	50 VOLT.	C45 (-5)	25 VOLT.	50 VOLT.					
CAP. (µF)	PART No.	PART No.	CAP. (µF)	PART No.	PART No.					
0.001	→	1-161-039-00	0.018	1-161-016-00	1-161-054-00					
0.0012	-	1-161-040-00	0.022	1-161-017-00	1-161-055-00					
0.0015		1-161-041-00	0.027	1-161-018-00	1-161-056-00					
0.0018		1-161-042-00	0.033	1-161-019-00	1-161-057-00					
0.0022		1-161-043-00	0.039	1-161-010-00	1-161-058-00					
0.0027	-	1-161-044-00	0.047	1-161-021-00	1-161-059-00					
0.0033		1-161-045-00	0.056	→	1-161-060-00					
0.0039	→	1-161-046-00	0.068	→	1-161-061-00					
0.0047	-	1-161-047-00	0.082	1-161-024-00	1-161-062-00					
0.0056	→	1-161-048-00	0.1	1-161-025-00	1-161-063-00					
0.0068	-	1-161-049-00								
0.0082	1-161-012-00	1-161-050-00								
0.01	1-161-013-00	1-161-051-00								
0.012	-	1-161-052-00								
0.015	1-161-015-00	1-161-053-00	1							

MYLAR CAPACITORS (A)

Note: Circled letters (A to (2)) are applicable to European models only.

	RATING										
	50 VÓLT.	100 VOLT.	200 VOLT.	/ ->	50 VOLT.	100 VOLT.	200 VOLT.	CAP. (µF)	50 VOLT.	100 VOLT.	200 VOLT.
CAP. (µF)	PART No.	PART No.	PART No.	CAP. (µF)	PART No.	PART No.	PART No.	CAP. WP)	PART No.	PART No.	PART No.
0.001	1-108-227-00	1-108-365-00	1-108-409-00	0.01	1-108-239-00	1-108-377-00	1-108-421-00	0.1	1-108-251-00	1-108-389-00	1-108-433-00
0.0012	1-108-351-00	1-108-366-00	1-108-410-00	0.012	1-108-357-00	1-108-378-00	1-108-422-00	0.12	1-108-363-00	1-108-390-00	1-108-434-00
0.0015	1-108-228-00	1-108-367-00	1-108-411-00	0.015	1-108-240-00	1-108-379-00	1-108-423-00	0.15	1-108-252-00	1-108-391-00	1-108-435-00
0.0018	1-108-352-00	1-108-368-00	1-108-412-00	0.018	1-108-358-00	1-108-380-00	1-108-424-00	0.18	1-108-364-00	1-108-392-00	1-108-436-00
0.0022	1-108-230-00	1-108-369-00	1-108-413-00	0.022	1-108-242-00	1-108-381-00	1-108-425-00	0.22	1-108-254-00	1-108-393-00	1-108-437-00
0.0027	1-108-353-00	1-108-370-00	1-108-414-00	0.027	1-108-359-00	1-108-382-00	1-108-426-00	0.27	1-108-854-00	-	-
0.0033	1-108-232-00	1-108-371-00	1-108-415-00	0.033	1-108-244-00	1-108-383-00	1-108-427-00	0.33	1-108-855-00	-	-
0.0039	1-108-354-00	1-108-372-00	1-108-416-00	0.039	1-108-360-00	1-108-384-00	1-108-428-00	0.39	1-108-856-00	-	-
0.0047	1-108-234-00	1-108-373-00	1-108-417-00	0.047	1-108-246-00	1-108-385-00	1-108-429-00	0.47	1-108-857-00	-	-
0.0056	1-108-355-00	1-108-374-00	1-108-418-00	0.056	1-108-361-00	1-108-386-00	1-108-430-00				
0.0068	1-108-237-00	1-108-375-00	1-108-419-00	0.068	1-108-249-00	1-108-387-00	1-108-431-00				
0.0082	1-108-356-00	1-108-376-00	1-108-420-00	0.082	1-108-362-00	1-108-388-00	1-108-432-00				



			RATING	→ : l	Jse the high voltage	rated one,	
/	3.15 VOLT.	6.3 VOLT.	10 VOLT.	16 VOLT.	20 VOLT.	25 VOLT.	35 VOLT.
CAP. (µF)	PART No.	PART No.	PART No.				
0.01					-	-	1-131-396-00 (B
0.015						→	1-131-397-00 (B
0.022						-	1-131-398-00 (B
0.033						-	1-131-399-00 (8
0.047						-	1-131-400-00 (B
0.068					-	-	1-131-401-00 B
0.1					-	-	1-131-402-00 B
0.15					-	→	1-131-403-00 B
0.22					-	→	1-131-404-00 B
0.33					-	1-131-409-00 B	1-131-405-00 B
0.47	-	-	-	-	1-131-412-00 B	→	1-131-406-00 B
0.68	-	-	-	1-131-415-00 B	-	1-131-410-00 B	1-131-407-00 (B
1.0	-	-	1-131-418-00 B	-	1-131-413-00 B	-	1-131-408-00 (B
1.5	-	1-131-421-00 B		1-131-416-00 ®	-	1-131-411-00 B	1-131-348-00 B
2.2	1-131-424-00 B	-	1-131-419-00 B	-	1-131-414-00 B	1-131-355-00 B	1-131-349-00 (B)
3.3	-	1-131-422-00 B	-	1-131-417-00 B	1-131-362-00 B	1-131-356-00 B	1-131-350-00 B
4.7	1-131-425-00 B	-	1-131-420-00 B	1-131-369-00 B	1-131-363-00 B	1-131-357-00 B	1-131-351 -00 ©
6.8	-	1-131-423-00 B	1-131-376-00 ®	1-131-370-00 B	1-131-364-00 B	1-131-358-00 ©	1-131-352-00 ©
10	1-131-426-00 B	1-131-383-00 B	1-131-377-00 B	1-131-371-00 B	1-131-365-00 ©	1-131-359-00 ©	1-131-353 -00 🛈
15		1-131-384-00 B	1-131-378-00 B	1-131-372-00 B	1-131-366-00 ©	1-131-360-00 D	-
22		1-131-385-00 B	1-131-379-00 ©	1-131-373-00 ©	1-131-367-00 D		
33		1-131-386-00 ©	1-131-380-00 ©	1-131-374-00 D			
47		1-131-387-00 ©	1-131-381-00 🛈	-			
68		1-131-388-00 ©	-	-			
100	1-131-395-00 D	-	-	_			



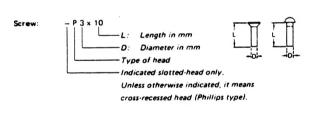
			RATING			
040 (vr)	3 VOLT.	6.3 VOLT.	10 VOLT.	16 VOLT.	20 VOLT.	35 VOLT.
CAP. (µF)	PART No.	PART No.	PART No.	PART No.	PART No.	PART No.
0.033						1-131-273-00 E
0.047						1-131-274-00 Œ
0.068						1-131-275-00 Œ
0.1						1-131-276-00 D
0.15						1-131-277-00 D
0.22			-	_	1-131-262-00 D	1-131-278-00 D
0.33			-	-	1-131-263-00 D	1-131-279-00 D
0.47			1-131-169-00 D	-	1-131-264-00 D	1-131-280-00 D
0.68			-	1-131-258-00 D	1-131-265-00 D	1-131-281-00 D
1.0			1-131-254-00 D	-	1-131-266-00 D	1-131-282-00 D
1.5		1-131-250-00 D	-	-	1-131-267-00 D	1-131-283-00 E
2.2		-	-	1-131-259-00 D	1-131-268-00 D	1-131-284-00 E
3.3		-	1-131-255-00 D	-	1-131-269-00 D	-
4.7		1-131-251-00 (E)	1-131-171-00 D		1-131-270-00 D	-
6.8		-	-	1-131-260-00 D	1-131-271-00 E	-
10	_	-	1-131-256-00 D	-	1-131-272-00 E	-
15	-	1-131-252-00 (D)	-	1-131-261-00 E		
22	-	-	1-131-257-00 E	-		
33	1-131-176-00 📵	1-131-253-00 (E)	1-131-1 73-00 ©	-		
47	1-131-288-00 F	1-131-174-00 🔘	-	-		
100	1-131-177-00 (D)					

1/4 WATT CARBON RESISTORS ®

Note: Circled letter (A) is applicable to European models only.

Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.
1.0	1-246-401-00	10	1-246-425-00	100	1-246-449-00	1.0k	1-246-473-00	10k	1-246-497-00	100k	1-246-521-00	1.0M	1-246-545-00
1.1	1-246-402-00	11	1-246-426-00	110	1-246-450-00	i i	1-246-474-00	11k	1-246-498-00	110k	1-246-522-00	1.1M	1-210-814-00
1.2	1-246-403-00	12	1-246-427-00	120	1-246-451-00	1.2k	1-246-475-00	12k	1-246-499-00	120k	1-246-523-00	1.2M	1-210-815-00
1.3	1-246-404-00	13	1-246-428-00	130	1-246-452-00		1-246-576-00	13k	1-246-500-00	130k	1-246-524-00	1.3M	1-210-816-00
	1-246-405-00	15	1-246-429-00	150	1-246-453-00	1.5k	1-246-577-00	15k	1-246-501-00	150k	1-246-525-00	1.5M	1-210-817-00
	. 2.0										505 00		1 010 010 00
1.6	1-246-406-00	16	1-246-430-00	160	1-246-454-00		1-246-578-00		1-246-502-00		1-246-526-00		1-210-818-00
1.8	1 -246 -407 -00	18	1-246-431-00	180	1-246-455-00		1 -246 -579 -00	18k	1-246-503-00		1-246-527-00		1-210-819-00
2.0	1-246-408-00	20	1-246-432-00	200	1-246-456-00	2.0k	1 -246 -580 -00	20k	1-246-504-00		1-246-528-00		1-210-820-00
2.2	1-246-409-00	22	1-246-433-00	220	1-246-457-00	2.2k	1-246-581-00	22k	1-246-505-00	1	1-246-529-00		1-210-821-00
2.4	1-246-410-00	24	1-246-434-00	240	1-246-458-00	2.4k	1-246-582-00	24k	1-246-506-00	240k	1-246-530-00	2.4M	1-244-754-00
				070	1-246-459-00	2 71.	1 -246 -583 -00	276	1-246-507-00	2704	1-246-531-00	2.7M	1-244-755-00
2.7	1-246-411-00	27	1-246-435-00			1	1-246-584-00	30k	1-246-508-00		1-246-532-00		1-244-756-00
3.0	1-246-412-00	30	1-246-436-00		1-246-460-00			33k	1-246-509-00		1-246-533-00		1 -244 -757 -00
3.3	1-246-413-00	33	1-246-437-00	330	1-246-461-00	1	1-246-585-00		1-246-510-00		1-246-534-00		1-244-758-00
3.6	1-246-414-00	36	1-246-438-00		1-246-462-00	3		36k	1-246-511-00	1			1-244-759-00
3.9	1-246-415-00	39	1-246-439-00	390	1-246-463-00	3.9k	1-246-587-00	39k	1-246-511-00	390K	1-240-333-00	3.314	1 244 733 00
4.3	1-246-416-00	43	1-246-440-00	430	1-246-464-00	4.3k	1-246-488-00	43k	1-246-512-00	430k	1-246-536-00	4.3M	1-244-760-00
4.7	1-246-417-00	47	1-246-441-00	470	1-246-465-00		1-246-489-00	47k	1-246-513-00	470k	1-246-537-00	4.7M	1 -244 -761 -00
5.1	1-246-418-00	51	1 -246 -442 -00	510	1-246-466-00	5.1k	1-246-490-00	51k	1-246-514-00	510k	1-246-538-00	5.1M	1-244-762-00
5.6	1-246-419-00	56	1-246-443-00	560	1-246-467-00		1-246-491-00	56k	1-246-515-00	560k	1-246-539-00		
	1-246-420-00	62	1-246-444-00	620	1-246-468-00	6.2k		62k	1-246-516-00	620k	1-246-540-00		
6.2	1-246-420-00	02	1 240 444 00	020	. 210 100 00								
6.8	1-246-421-00	68	1-246-445-00	680	1-246-469-00	6.8k	1-246-493-00	68k	1-246-517-00				
7.5	1-246-422-00	75	1-246-446-00	750	1-246-470-00	7.5k	1-246-494-00	75k	1-246-518-00				
8.2	1-246-423-00	82	1-246-447-00	820	1-246-471-00	8.2k	1-246-495-00	82k	1-246-519-00	820k	1-246-543-00		
9.1	1-246-424-00	91	1-246-448-00	910	1-246-472-00	9.1k	1-246-496-00	91k	1 -246 -520 -00	910k	1-246-544-00		
						1				!			

HARDWARE NOMENCLATURE



Reference Designation	Shape	Description	Remarks
		SCREWS	
Р	₩	pan-head screw	binding-head (B) screw for replacement
PWH	€	pan-head screw with washer face	binding-head (B) screw and flat washer for replacement
PS PSP	8 53-	pan-head screw with spring washer	binding-head (B) screw and spring washer for replace- ment
PSW PSPW	()\$1 -	pan-head screw with spring and flat washers	binding-head (B) screw and spring and flat washers for replacement
R	€	round-head screw	binding-head (B) screw for replacement
К	D	flat-countersunk-head screw	
RK	₩	oval-countersunk-head screw	
8	₽	binding-head screw	
Т	₽	truss-head screw	binding-head (B) screw for replacement
F	₽⇒	flat-fillister-head screw	
RF	€∋-	fillister-head screw	
BV	43	braizer-head screw	

Nut, Washer,	Retaining ring:
	Ņ 3
	Diameter of usable screw or shaft
	Reference designation

Reference Designation	Shape	Description	Remarks					
SELF TAPPING SCREWS								
TA	(10)	self-tapping screw	ex: TA, P 3 x 10					
PTP	₩	pan-head self-tapping screw	binding-head self- tapping (TA, B) screw for replacement					
PTPWH		pan-head self-tapping screw with washer face	binding-head self tapping (TA, B) screw and flat washer for replacement					
PTTWH	#== @	pan-head thread-rolling screw with washer face	binding-head (B) screw and flat washer for replayment					
		SET SCREWS						
sc	-6:3-	set screw						
SC	⊕€::Э-	hexagon-socket set screw	ex: SC 2.6 x 4, hexgon socket					
		NUT						
N	-{} •	nut						
		WASHERS						
w	0	flat washer						
SW	-0+	spring washer						
LW	٥	internal-tooth lock washer	ex: LW3, internal					
LW	0	external-tooth lock washer	ex: LW3, external					
RETAINING RINGS								
E	೧	retaining ring						
G	୍ଜି	grip-type retaining ring						

